SIEMENS

3RT1076-2AP36 Data sheet



CONTACTOR, 250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM CAGE CLAMP TERMINAL

product brand name	SIRIUS
Product designation	power contactor
General technical data:	

General technical data:	
Size of contactor	S12
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	690 V
60947-1	
Protection class IP	
• on the front	IP00
of the terminal	IP00
Shock resistance	
 at rectangular impulse 	
— at AC	8,5g / 5 ms, 4,2g / 10 ms
— at DC	8,5g / 5 ms, 4,2g / 10 ms
• with sine pulse	

- at AC - at DC 13,4g / 5 ms, 6,5g / 10 ms Mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch • of the contactor with added
Mechanical service life (switching cycles) • of contactor typical • of the contactor with added electronics- compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical *Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage *Auxin circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts • at AC-1 at 400 V
of contactor typical of the contactor with added electronics- compatible auxiliary switch block typical of the contactor with added auxiliary switch block typical Installation altitude at height above sea level maximum Ambient temperature ouring operation during operation during storage Aunin circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current at AC-1 at 400 V
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Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V
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during storage -55 +80 °C Main circuit: Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V
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Number of NO contacts for main contacts Number of NC contacts for main contacts Operating current • at AC-1 at 400 V
Operating current ● at AC-1 at 400 V
• at AC-1 at 400 V
at ambient temperature 40 °C reted value 610 A
— at ambient temperature 40 °C rated value 610 A
• at AC-1 up to 690 V
— at ambient temperature 40 °C rated value 610 A
— at ambient temperature 60 °C rated value 550 A
• at AC-3
— at 400 V rated value 500 A
— at 690 V rated value 450 A
Connectable conductor cross-section in main circuit
at AC-1
• at 60 °C minimum permissible 370 mm²
• at 40 °C minimum permissible 370 mm²
Operating current for approx. 200000 operating cycles at AC-4
• at 400 V rated value 175 A
• at 690 V rated value 150 A
Operating current
• at 1 current path at DC-1
— at 24 V rated value 400 A
— at 110 V rated value 33 A
• with 2 current paths in series at DC-1
— at 24 V rated value 400 A
— at 110 V rated value 400 A
• with 3 current paths in series at DC-1

	— at 24 V rated value	400 A
Operating current ◆ at 1 current path at DC-3 at DC-5 — at 24 V rated value		
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — with 2 current paths in series at DC-3 at DC-5 — at 1110 V rated value — at 24 V rated value — at 24 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 1110 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value — at 24 V rated value — at 24 V rated value — at 20 V at 60 °C rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value • at AC-2 — at 230 V rated value • at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value • at 400 V rated value • at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value — at AC-4 • at 400 V rated value — at 690 V rated value —		
	•	
with 2 current paths in series at DC-3 at DC-5 — at 110 V rated value	·	400 A
	— at 110 V rated value	3 A
	 with 2 current paths in series at DC-3 at DC-5 	
	·	400 A
with 3 current paths in series at DC-3 at DC-5 — at 110 V rated value 400 A — at 24 V rated value 400 A Operating power • at AC-1 — at 230 V at 60 °C rated value 362 kW — at 400 V rated value 624 kW — at 690 V rated value 624 kW — at 690 V rated value 624 kW — at 690 V rated value 624 kW • at AC-2 at 400 V rated value 291 kW • at AC-2 at 400 V rated value 291 kW — at 690 V rated value 291 kW — at 690 V rated value 363 kW — at 690 V rated value 291 kW — at 690 V rated value 363 kW — at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC - maximum 500 1/h • at AC - maximum 420 1/h • at AC-4 maximum 420 1/h • at AC-4 maximum 420 1/h • at AC-4 maximum 130 1/h Control circuit/ Controls: Type of voltage of the control supply voltage AC/DC		400 A
- at 110 V rated value 400 A - at 24 V rated value 400 A Operating power • at AC-1 - at 230 V at 60 °C rated value 362 kW - at 400 V rated value 624 kW - at 690 V rated value 624 kW • at 690 V rated value 291 kW • at AC-2 at 400 V rated value 291 kW • at AC-3 - at 230 V rated value 291 kW • at AC 3 - at 230 V rated value 291 kW - at 400 V rated value 291 kW - at 690 V rated value 363 kW - at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC 2000 1/h • at DC Operating frequency • at AC-1 maximum 500 1/h • at AC-2 maximum 420 1/h • at AC-4 maximum 170 1/h • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		
Operating power	•	400 A
Operating power • at AC-1 — at 230 V at 60 °C rated value — at 400 V rated value — at 690 V rated value • at AC-2 — at 230 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value		
at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at AC-2 at 400 V rated value at AC-3 at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 600 V rated value at 600 V rated value at AC-4 at 400 V rated value 55 W Themmal short-time current limited to 10 s 4 000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC at DC Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-6 maximum at AC-6 maximum at AC-7 moximum at AC-6 maximum at AC-7 moximum at AC-6 maximum at AC-7 moximum at AC-7 maximum at AC-9 rototage of the control supply voltage AC/DC		
at 400 V rated value 624 kW at 690 V rated value 624 kW at 690 V at 60 °C rated value 624 kW • at AC-2 at 400 V rated value 291 kW • at AC-3 at 230 V rated value 164 kW at 400 V rated value 291 kW at 500 V rated value 363 kW at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s 4000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC 2000 1/h • at DC 2000 1/h Operating frequency • at AC-1 maximum 500 1/h • at AC-2 maximum 170 1/h • at AC-3 maximum 420 1/h • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC	— at 230 V at 60 °C rated value	151 kW
- at 690 V at 60 °C rated value 624 kW • at AC-2 at 400 V rated value 291 kW • at AC-3 - at 230 V rated value 164 kW - at 400 V rated value 291 kW - at 500 V rated value 363 kW - at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s 4000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at AC • at AC-1 maximum 500 1/h • at AC-2 maximum 420 1/h • at AC-3 maximum 420 1/h • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		362 kW
at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC 2 000 1/h • at DC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at A	— at 690 V rated value	624 kW
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximu	— at 690 V at 60 °C rated value	624 kW
- at 230 V rated value 164 kW - at 400 V rated value 291 kW - at 500 V rated value 363 kW - at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s 4000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC 2 000 1/h • at DC 2 000 1/h Operating frequency • at AC-1 maximum 500 1/h • at AC-2 maximum 170 1/h • at AC-3 maximum 420 1/h • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC	at AC-2 at 400 V rated value	291 kW
- at 400 V rated value 291 kW - at 500 V rated value 363 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s 4000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 voltage of the control supply voltage AC/DC	• at AC-3	
— at 500 V rated value — at 690 V rated value 453 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 98 kW • at 690 V rated value 148 kW Thermal short-time current limited to 10 s 4 000 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC Operating frequency • at AC-1 maximum 500 1/h • at AC-2 maximum 420 1/h • at AC-3 maximum 420 1/h • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC	— at 230 V rated value	164 kW
— at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 148 kW Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 voltage of the control supply voltage AC/DC	— at 400 V rated value	291 kW
Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • at AC • at DC Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum AC-1 maximum • at AC-3 maximum • at AC-4 maximum AC-1 maximum • at AC-3 maximum • at AC-4 maximum AC-1 maximum • at AC-3 maximum • at AC-4 maximum AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum AC-1 maximum AC-1 maximum AC-2 maximum AC-1 maximum AC-2 maximum AC-3 maximum AC-3 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-2 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-1 maximum AC-2 maximum AC-3 maximum AC-1	— at 500 V rated value	363 kW
at AC-4	— at 690 V rated value	453 kW
at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC at DC Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum ACONTROI circuit/ Control: Type of voltage of the control supply voltage AC/DC		
Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC at DC Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-1 maximu	• at 400 V rated value	98 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC at DC 2 000 1/h 2 000 1/h Operating frequency at AC-1 maximum 500 1/h at AC-2 maximum 170 1/h at AC-3 maximum 420 1/h at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC	• at 690 V rated value	148 kW
the operating current per conductor No-load switching frequency • at AC • at DC 2 000 1/h Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC	Thermal short-time current limited to 10 s	4 000 A
No-load switching frequency • at AC • at DC 2 000 1/h Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		55 W
 at AC at DC 2 000 1/h Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum Type of voltage of the control supply voltage AC/DC		
at DC Operating frequency at AC-1 maximum 500 1/h at AC-2 maximum 170 1/h at AC-3 maximum 420 1/h at AC-4 maximum Ontrol circuit/ Control: Type of voltage of the control supply voltage 2 000 1/h 500 1/h 170 1/h 420 1/h AC/DC		
Operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		
at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		2 000 1/h
 at AC-2 maximum at AC-3 maximum at AC-4 maximum 170 1/h 420 1/h 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		500.44
at AC-3 maximum at AC-4 maximum at AC-4 maximum Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		
at AC-4 maximum 130 1/h Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		
Control circuit/ Control: Type of voltage of the control supply voltage AC/DC		
Type of voltage of the control supply voltage AC/DC	● at AC-4 maximum	130 1/h
	Control circuit/ Control:	
Control supply voltage at AC		AC/DC
	Control supply voltage at AC	

• at 50 Hz rated value	220 240 V
• at 60 Hz rated value	220 240 V
Control supply voltage at DC	
• rated value	220 240 V
Control supply voltage frequency 1 rated value	50 Hz
Control supply voltage frequency 2 rated value	60 Hz
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	830 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of magnet coil at AC	9.2 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of magnet coil at DC	920 W
Holding power of magnet coil at DC	10 W
Closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
Opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
Arcing time	10 15 ms
Auxiliary circuit:	
Number of NC contacts	
 for auxiliary contacts 	
— instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	2
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
Operating current at DC-12	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A

Operating current at DC-13

• at 24 V rated value 10 A

at 60 V rated value

• at 110 V rated value 1 A

• at 220 V rated value 0.3 A

UL/CSA ratings:

Contact rating of auxiliary contacts according to UL A600 / Q600

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required
 — with type of assignment 2 required
 fuse gL/gG: 630 A
 fuse gL/gG: 500 A

• for short-circuit protection of the auxiliary switch

required

fuse gL/gG: 10 A

2 A

Installation/ mounting/ dimensions:	
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	
for grounded parts	
— at the side	10 mm

Connections/ Terminals:

pe of electrical connection	
• for main current circuit	spring-loaded terminals
for auxiliary and control current circuit	spring-loaded terminals

Type of connectable conductor cross-sections

• at AWG conductors for main contacts 2/0 ... 500 kcmil

Type of connectable conductor cross-sections

• for auxiliary contacts

— solid
 — finely stranded with core end processing
 2x (0.25 ... 2.5 mm²)
 2x (0.25 ... 1.5 mm²)

— finely stranded without core end 2x (0.25 ... 2.5 mm²) processing

• at AWG conductors for auxiliary contacts 2x (24 ... 14)

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











spezielle Prüfbescheinigunge n

Shipping Approval

other







Umweltbestätigung

sonstig

Bestätigungen

Further informatior

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT10762AP36

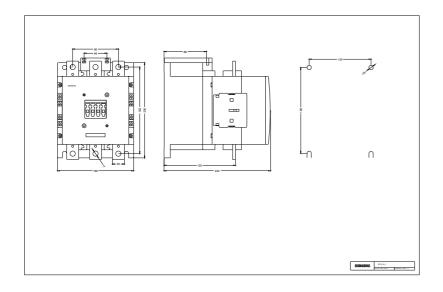
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10762AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT10762AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10762AP36&lang=en





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last modified:

12.05.2016